1 PART III, OPERATING UNIT GROUP 3 PERMIT CONDITIONS

Liquid Effluent Retention Facility & 200 Area Effluent Treatment Facility

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3	Unit	Descri	ntıon:
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- 4 The Liquid Effluent Retention Facility (LERF) and 200 Area Effluent Treatment Facility (200 Area ETF)
- 5 consists of an aqueous waste treatment system that provides treatment, storage integral to the treatment
- 6 process, and storage of secondary wastes from the treatment process for a variety of aqueous mixed
- 7 waste. The 200 Area ETF is located in the 200 East Area. Aqueous wastes managed by the 200 Area
- 8 ETF include process condensate from the LERF and 200 Area ETF and other aqueous waste generated
- 9 from onsite remediation and waste management activities.
- 10 The LERF consists of three lined surface impoundments, or basins. Aqueous waste from LERF is
- pumped to the 200 Area ETF for treatment in a series of process units, or systems, that remove or destroy
- essentially all of the dangerous waste constituents. The treated effluent is discharged to a State-Approved
- Land Disposal Site (SALDS) north of the 200 West Area, under the authority of a Washington State
- Waste Discharge Permit (Ecology 2000) and 200 Area ETF Delisting (40 CFR 261, Appendix IX,
- 15 Table 2). Construction of the LERF began in 1990. Waste management operations began at LERF in
- April 1994. Construction of the 200 Area ETF began in 1992. Waste management operations began at
- 17 200 Area ETF in November of 1995.
- 18 This Chapter provides unit-specific Permit conditions applicable to the dangerous waste management
- units for LERF and 200 Area ETF.

20 <u>List of Addenda Specific to Operating Unit Group 3</u>

- 21 Addendum A Part A Form, dated June 20, 2013
- 22 Addendum B Waste Analysis Plan, dated March 31, 2013
- 23 Addendum C Process Information, dated September 30, 2103
- 24 Chapter 5.0 Groundwater Monitoring (PNNL-11620 & WHC-SD-EN-AP-024), dated June 30, 2008
- 25 Addendum E Security Requirements, dated, June 30, 2011
- 26 Addendum F Preparedness and Prevention, dated June 20, 2013
- 27 Addendum G Personnel Training, dated June 30, 2012
- 28 Addendum H Closure Plan, dated June 30, 2011
- 29 Addendum I Inspection Requirements, dated September 30, 2013
- 30 Addendum J Contingency Plan, dated March 31, 2012

31 **Definitions**

- 32 **State and federal delisting actions:** The state delisting action pursuant to <u>WAC 173-303-910(3)</u>,
- August 8, 2005, and the federal delisting action appearing in 40 CFR 261, Appendix IX, Table 2
- 34 applicable to the United States, Department of Energy, Richland, Washington.

35 Acronyms

36 LERF and 200 Area ETF 200-Area Liquids Processing Facility

37 III.3.A COMPLIANCE WITH UNIT-SPECIFIC PERMIT CONDITIONS

- 38 III.3.A.1 The Permittees will comply with all Permit Conditions in this Chapter and its
- Addendums and Chapters with respect to dangerous waste management and dangerous waste management units in LERF and 200 Area ETF, in addition to requirements in
- 41 Permit Part I and Part II.

1	III.3.B	GENERAL WASTE MANAGEMENT
2 3 4 5	III.3.B.1	The Permittees are authorized to accept dangerous and/or mixed waste for treatment in dangerous waste management units that satisfies the waste acceptance criteria in Permit Addendum B according to the waste acceptance procedures in Permit Addendum B. [WAC 173-303-300]
6 7 8	III.3.B.2	The Permittees are authorized to manage dangerous and/or mixed wastes physically present in the dangerous waste management units in LERF and 200 Area ETF as of the effective date of this Permit according to the requirements of Permit Condition III.15.B.1.
9 10 11	III.3.B.3	The Permittees are authorized to treat and/or store dangerous/mixed waste in the dangerous waste management units in LERF and 200 Area ETF according to the following requirements:
12 13 14	III.3.B.3.a	The Permittees are authorized to treat, and store as necessary in support of treatment, dangerous waste in the 200 Area ETF tank systems identified in Permit Addendum C, Section C.2, and Section C.4 according to the Permit Conditions of this Chapter.
15 16 17 18 19	III.3.B.3.b	The Permittees are authorized to store and treat those dangerous and/or mixed waste identified in Permit Addendum C, Section C.3, in containers according to the requirements of this Chapter. All container management activities pursuant to this Permit Condition will take place within the container storage area or within the 200 Area ETF process area identified in Permit Addendum C, Figure C.3.
20 21 22 23	III.3.B.3.c	Treatment in containers authorized by Permit Condition III.3.B.3.b is limited to decanting of free liquids, and addition of sorbents to free liquids. The Permittees will ensure that sorbents are compatible with wastes and the containers. Sorbents will be compliant with the requirements of <u>WAC 173-303-140(4)(b)(iv)</u> , incorporated by reference.
24 25	III.3.B.3.d	The Permittees are authorized to treat aqueous waste in LERF Basins (Basins 42, 43 and 44) subject to the following requirements:
26 27 28	III.3.B.3.d.1	Following treatment in a LERF basin, aqueous wastes must be treated in 200 Area ETF according to Permit Conditions III.3.B.3.a through c.; [40 CFR 268.4(2)(iii), incorporated by reference by WAC 173-303-140]
29 30 31 32 33	III.3.B.3.d.2	The Permittees must ensure that for each basin, either supernatant is removed on a flow-through basis, to meet the requirement of 40 CFR 268.4(a)(2)(ii) incorporated by reference by WAC 173-303-140, or incoming waste is shown to not contain solids by either: (1) sampling results showing the waste does not contain detectable solids, or (2) filtering through a 10 micron filter; [WAC 173-303-815(2)(b)(ii)]
34 35 36	III.3.B.4	The Permittees will maintain the physical structure of the LERF and 200 Area ETF as documented in the applicable sections of Permit Addendum C, Section C.2. [WAC 173-303-630(7), WAC 173-303-640(3), WAC 173-303-640(4)]
37 38 39 40	III.3.B.5	The Permittees are authorized to use treated effluent for recycle/makeup water purposes at the 200 Area ETF as outlined in Permit Addendum C, Section C.2.5.5, and the letters dated <u>August 19, 2005, EPA Region 10 to Keith A. Klein</u> ; and <u>August 8, 2005, Department of Ecology to Keith A. Klein</u> . [WAC 173-303-815 (2)(b)(ii)]
41 42 43 44 45 46 47	III.3.B.6	The Permittees will maintain and operate systems for the 200 Area ETF documented in Permit Addendum C, Section C.2.5 as necessary for proper operation of the 200 Area ETF, compliance with the conditions of this Permit, and protection of human health and the environment. For purposes of this Permit Condition, the Monitor and Control System documented in Permit Addendum C, Section C.2.5.1, is considered to include all indicators, sensors, transducers, actuators and other control devices connected to but remote from the centralized monitor and control system (MCS) computer.

1 2 3	III.3.B.7	The Permittees must complete the following requirements prior to acceptance for treatment in 200 Area ETF aqueous waste streams with listed waste numbers subject to the requirements of the State and Federal delisting: [WAC 173-303-815(2)(b)(ii)]
4 5 6	III.3.B.7.a	The Permittees will prepare a written waste processing strategy according to the requirements of the <u>State and Federal Delisting Actions Conditions (1)(a)(ii) and (1)(b)</u> , incorporated by reference, and Permit Addendum B, Section B.2.2.2.
7 8 9 10 11	III.3.B.7.b	The waste processing strategy required by Permit Condition III.3.B.7.a, must document the proposed processing configuration for the 200 Area ETF, operating conditions for each processing unit, and the expected treated effluent characteristics based on the process model and treatability envelope data required by <u>State and Federal Delisting Conditions (1)(a)(ii) and (1)(b)</u> .
12 13 14 15	III.3.B.7.c	The written waste processing strategy required by Permit Condition III.3.B.7.a must demonstrate that the projected treated effluent characteristics satisfy the delisting exclusion limits in <u>State and Federal Delisting Condition (5)</u> of the state and federal delisting actions, and the discharge limits of the <u>State Discharge Permit ST-4500</u> .
16 17 18 19	III.3.B.7.d	The Permittees will place a copy of the written waste processing strategy required by Permit Condition III.3.B.7.a in the Hanford Facility Operating Record, LERF and 200 Area ETF file as part of the documentation of waste streams accepted for management at the 200 Area ETF.
20 21 22 23	III.3.B.8	Treatment of aqueous waste streams in the 200 Area ETF with listed waste numbers that are subject to the requirements of the state and federal delisting actions must comply with the requirements of <u>State and Federal Delisting Condition (1)(c)</u> , incorporated by reference. [<u>WAC 173-303-815 (2)(b)(ii)</u>]
24 25 26	III.3.B.9	The Permittees will manage treated effluent in the final verification tanks according to the requirements of the <u>State and Federal Delisting Conditions (3) and (5)</u> , incorporated by reference. [<u>WAC 173-303-815 (2)(b)(ii)</u>]
27 28 29	III.3.B.10	The Permittees will manage treated effluent from the 200 Area ETF according to the requirements of the State Waste Discharge Permit ST 4500 and State and Federal Delisting Condition (7). [WAC 173-303-815(2)(b)(ii)]
30 31 32 33 34 35 36	III.3.B.11	The Permittees will ensure compliance with treatment standards (40 CFR 268, incorporated by reference by WAC 173-303-140) applicable to treated effluent prior to discharge to the State Authorized Land Disposal Site (SALDS), the delisting criteria at 40 CFR 261, Appendix IX, Table 2, and the corresponding state-approved delisting (dated August 8, 2005, all incorporated by reference). Sampling and analysis necessary for these demonstrations must meet the corresponding requirements in Permit Addendum B. [WAC 173-303-140, WAC 173-303-815 (2)(b)(ii)]
37	III.3.C	WASTE ANALYSIS
38 39 40	III.3.C.1	The Permittees will comply with requirements in Permit Addendum B for sampling and analysis of all dangerous and/or mixed waste required by conditions in this Chapter. [WAC 173-303-300]
41 42 43	III.3.C.2	The Permittees will have an accurate and complete waste profile as described in Permit Addendum B, Section B.2.1.2, for every waste stream accepted for management in LERF and 200 Area ETF dangerous waste management units. [WAC 173-303-380 (1)(a), (b)]
44 45 46	III.3.C.3	The Permittees will place a copy of each waste profile required by Permit Condition III.15.C.2 in the Hanford Facility Operating Record, LERF and 200 Area ETF file required by Permit Condition II.I.2. [WAC 173-303-380 (1)(a), (b)]

1 2	III.3.C.4	The Permittees will make a copy of the waste profile required by Permit Condition III.15.C.2 available upon request. [WAC 173-303-380 (1)(a), (b)]	
3 4 5	III.3.C.5	Records and results of waste analysis described in this Permit will be maintained in the Hanford Facility Operating Record, LERF and 200 Area ETF file required by Permit Condition II.I.2. [WAC 173-303-380 (1)(a), (b)]	
6	III.3.D	RECORDKEEPING AND REPORTING	
7 8	III.3.D.1	The Permittees will place the following into the Hanford Facility Operating Record, LERF and 200 Area ETF file required by Permit Condition II.I.2:	
9	III.3.D.1.a	Records required by WAC 173-303-380 (1)(k), and -(o) incorporated by reference.	
10 11 12 13	III.3.D.1.b	Records and results of waste analysis, waste determinations (as required by <u>Subpart CC</u>) and trial tests required by <u>WAC 173-303-300</u> , General waste analysis, and by <u>40 CFR §264.1034,§264.1063,§264.1083,§265.1034,§265.1063,§265.1084,§268.4</u> (a), and <u>§268.7</u> ; [WAC 173-303-310(2)]	
14 15	III.3.D.1.c	An inspection log, summarizing inspections conducted pursuant to Permit Condition III.3.H.1; [WAC 173-303-380(1)(e)]	
16 17	III.3.D.1.d	Records required by the <u>State and Federal Delisting Condition (6)</u> , incorporated by reference; [WAC 173-303-815 (2)(b)(ii)]	
18	III.3.E	SECURITY	
19 20 21	III.3.E.1	The Permittees comply with the Security requirements specific to the LERF and 200 Area ETF in Addendum E and Permit Attachment 3 as required by Permit Condition II.L. [WAC 173-303-310(2)]	
22	III.3.F	PREPAREDNESS AND PREVENTION	
23 24	III.3.F.1	The Permittees will comply with the Preparedness and Prevention requirements specific to LERF and 200 Area ETF in Addendum F. [WAC 173-303-340]	
25	III.3.G	CONTINGENCY PLAN	
26 27	III.3.G.1	The Permittees will comply with Addendum J, Contingency Plan, in addition to the requirements of Permit Condition II.A when applicable. [WAC 173-303-350]	
28	III.3.H	INSPECTIONS	
29 30	III.3.H.1	The Permittees will comply with Addendum I in addition to the requirements of Permit Condition II.X. [WAC 173-303-320]	
31	III.3.I	TRAINING PLAN	
32 33 34 35	III.3.I.1	The Permittees will include the training requirements described in Addendum G of this Chapter specific to the dangerous waste management units and waste management activities at LERF and 200 Area ETF into the written training plan required by Permit Condition II.C.	
36	III.3.J	GENERAL REQUIREMENTS	
37 38	III.3.J.1	The Permittees will comply with the requirements of <u>WAC 173-303-395(1)</u> , incorporated by reference, for prevention of reaction of ignitable, reactive, or incompatible wastes.	
39	III.3.K	CLOSURE	
40 41 42	III.3.K.1	The Permittees will close dangerous waste management units in the LERF and 200 Area ETF in accordance with Addendum H, Closure Plan, and Permit Condition II.J. [WAC 173-303-610(3)(a)]	

1	III.3.L	POST CLOSURE – RESERVED
2	III.3.M	CRITICAL SYSTEMS – RESERVED
3	III.3.N	RESERVED
4	III.3.O	CONTAINERS
5	III.3.O.1	Container Storage and Treatment Unit Standards
6 7 8 9 10	III.3.O.1.a	As part of or in addition to the requirements of Permit Condition III.3.B.2, the Permittees will ensure the integrity of container storage secondary containment and the chemically resistant coating described in Addendum C, Section C.3.4.1 as necessary to ensure any spills or releases to secondary containment do not migrate to the underlying concrete or soils.
11 12	III.3.O.1.a.1	Include documentation of any damage and subsequent repairs in the Hanford Facility Operating Record, LERF and 200 Area ETF file required by Permit Condition II.I.2.
13	III.3.O.2	Container Management Standards
14 15	III.3.O.2.a	The Permittees will maintain and manage wastes in accordance with the requirements of Addendum C, Section 4.3.2, and Section 4.3.2. [WAC 173-303-630(2)]
16 17	III.3.O.2.b	The Permittees will label containers in accordance with the requirements of Addendum C, Section C.3.2, and Section C.3.3. [WAC 173-303-630(3)]
18 19	III.3.O.2.c	The Permittees will comply with the requirements for managing wastes in containers in <u>WAC 173-303-630(5)</u> , incorporated by reference.
20 21 22	III.3.O.2.d	The Permittees will ensure wastes are compatible with containers and with other wastes stored or treated in containers within the 200 Area ETF according to the requirements of Addendum C, Section C.3.4.3. [WAC 173-303-630(4), WAC 173-303-630(9)]
23 24 25 26	III.3.O.2.e	The Permittees may treat wastes in containers via decanting of free liquids and addition of sorbents. The Permittees may not use addition of sorbents for purposes of changing the treatability group of a waste with respect to the land disposal restriction standards of 40 CFR 268, incorporated by reference by WAC 173-303-140.
27 28 29 30	III.3.O.2.f	The Permittees will remove any accumulated liquids from container storage areas in 200 Area ETF according to the requirements of Addendum C, Section C.3.4.2, to ensure containers are not in contact with free liquids and to prevent overflow of the container storage area secondary containment.
31 32	III.3.O.2.g	The Permittees will comply with the requirements for air emissions from containers in Addendum C, Section C.6.3.2. [WAC 173-303-692]
33	III.3.P	TANK SYSTEMS
34	III.3.P.1	Tank System Requirements
35 36 37	III.3.P.1.a	The Permittees will develop a schedule for conducting integrity assessments (IA). The schedule will meet the requirements of Addendum C, Section C.4.2, and consideration of the factors in <u>WAC 173-303-640(2)(e)</u> or <u>WAC 173-303-640(3)(b)</u> as applicable:
38 39 40 41 42	III.3.P.1.b	The Permittees will maintain a copy of the schedule required by Permit Condition III.3.P.1.a, in the Hanford Facility Operating Record, LERF and 200 Area ETF file, and conduct periodic integrity assessments according to the schedule. The Permittees will document results of integrity assessments conducted according to the IA in the Hanford Facility Operating Record, LERF and 200 Area ETF file.

1 2 3	III.3.P.1.c	For existing tank systems, if a tank system is found to be leaking, or is unfit for use, the Permittees must follow the requirements of <u>WAC 173-303-640(7)</u> , incorporated by reference. [<u>WAC 173-303-640(3)(b)</u>]
4	III.3.P.2	Tank System Operating Requirements
5 6	III.3.P.2.a	The Permittees will comply with the requirements of <u>WAC 173-303-640(5)(a)</u> , incorporated by reference.
7 8	III.3.P.2.b	The Permittees will comply with the requirements of Addendum C, Section C.4.5.2. [WAC 173-303-640(5)(b)]
9 10	III.3.P.2.c	The Permittees will comply with the requirements of Addendum C, Section C.4.6. [WAC 173-303-640(5)(d)]
11 12 13	III.3.P.2.d	The Permittees will comply with the requirements of <u>WAC 173-303-640(7)</u> , incorporated by reference, in response to spills or leaks from tanks systems at 200 Area ETF. [<u>WAC 173-303-640(5)(c)</u>]
14 15 16 17 18	III.3.P.2.e	The Permittees will ensure that the Waste Processing Strategy required by Permit Condition III.3.B.7.a, provides for the immediate treatment or blending of waste accepted for management at the 200 Area ETF such that the resulting waste or mixture is no longer reactive or ignitable when further managed in 200 Area ETF tank systems. [WAC 173-303-640(9)]
19 20	III.3.P.2.f	The Permittees will comply with the requirements of <u>WAC 173-303-640(10)</u> , incorporated by reference.
21	III.3.Q	SURFACE IMPOUNDMENTS
22	III.3.Q.1	The Permittees will maintain the three LERF basins according to the requirements of
23	111.3.Q.1	WAC 173-303-650 (2)(f), incorporated by reference.
	III.3.Q.2	
232425		WAC 173-303-650 (2)(f), incorporated by reference. The Permittees will operate the LERF basins according to the requirements of Addendum C, Section C.5.3, and Addendum I, Section I.2.2.3.1 to prevent over-topping.
23 24 25 26 27 28	III.3.Q.2	WAC 173-303-650 (2)(f), incorporated by reference. The Permittees will operate the LERF basins according to the requirements of Addendum C, Section C.5.3, and Addendum I, Section I.2.2.3.1 to prevent over-topping. [WAC 173-303-650 (2)(c)] The Permittees will develop and maintain, and operate the LERF basins to ensure that any flow of waste into the impoundment can be immediately shut off in the event of
23 24 25 26 27 28 29 30	III.3.Q.2 III.3.Q.3	WAC 173-303-650 (2)(f), incorporated by reference. The Permittees will operate the LERF basins according to the requirements of Addendum C, Section C.5.3, and Addendum I, Section I.2.2.3.1 to prevent over-topping. [WAC 173-303-650 (2)(c)] The Permittees will develop and maintain, and operate the LERF basins to ensure that any flow of waste into the impoundment can be immediately shut off in the event of overtopping or liner failure. [WAC 173-303-650 (2)(d)] The Permittees will comply with the requirements of WAC 173-303-650 (2)(g),
23 24 25 26 27 28 29 30 31 32	III.3.Q.2 III.3.Q.3 III.3.Q.4	WAC 173-303-650 (2)(f), incorporated by reference. The Permittees will operate the LERF basins according to the requirements of Addendum C, Section C.5.3, and Addendum I, Section I.2.2.3.1 to prevent over-topping. [WAC 173-303-650 (2)(c)] The Permittees will develop and maintain, and operate the LERF basins to ensure that any flow of waste into the impoundment can be immediately shut off in the event of overtopping or liner failure. [WAC 173-303-650 (2)(d)] The Permittees will comply with the requirements of WAC 173-303-650 (2)(g), incorporated by reference. The Permittees will comply with the requirements of WAC 173-303-650 (4)(b),
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	III.3.Q.2 III.3.Q.3 III.3.Q.4 III.3.Q.5	WAC 173-303-650 (2)(f), incorporated by reference. The Permittees will operate the LERF basins according to the requirements of Addendum C, Section C.5.3, and Addendum I, Section I.2.2.3.1 to prevent over-topping. [WAC 173-303-650 (2)(c)] The Permittees will develop and maintain, and operate the LERF basins to ensure that any flow of waste into the impoundment can be immediately shut off in the event of overtopping or liner failure. [WAC 173-303-650 (2)(d)] The Permittees will comply with the requirements of WAC 173-303-650 (2)(g), incorporated by reference. The Permittees will comply with the requirements of WAC 173-303-650 (4)(b), incorporated by reference. The Permittees will comply with the requirements of WAC 173-303-650 (4)(c), incorporated by reference. The certification required by this Permit Condition must be provided to Ecology no later than seven calendar days after the date of the certification. A copy of the certification will be placed in the Hanford Facility Operating Record, LERF and 200 Area ETF file required by Permit Condition II.I.2. [WAC 173-303-650]

	Permit Revision September 30	on 8C, Class 42 Modification WA7890008967, Part III, Operating Unit Group 3 LERF and 200 Area ETF	
1 2 3	III.3.Q.9	The Permittees will close any LERF basin removed from service in accordance with the requirements of Permit Condition III.3.Q.7 or a basin that cannot be repaired or that the Permittees will not to return to service. [WAC 173-303-650(5)(e)]	
4 5 6	III.3.Q.10	The Permittees will comply with the requirements of Addendum C, Section C.5.10 with respect to management of ignitable or reactive wastes in the LERF basins. [WAC 173-303-650(7)]	
7 8 9	III.3.Q.11	The Permittees can place incompatible wastes and materials in the same LERF basin only if in compliance with the requirements of <u>WAC 173-303-395(1)(b)</u> , (c). [<u>WAC 173-303-650(8)</u>]	
10 11 12	III.3.Q.12	The Permittees will use the action leakage rate in Addendum C, Section C.5.8, for operation of LERF basins, and comply with the requirements of WAC 173-303-650(10)(b). [WAC 173-303-650(10)]	
13 14	III.3.Q.13	The Permittees will comply with the requirements of <u>WAC 173-303-650(11)</u> , incorporated by reference.	
15 16	III.3.Q.14	The Permittees will comply with the requirements of <u>40 CFR 264</u> , <u>Subpart CC</u> , incorporated by reference by <u>WAC 173-303-692</u> .	
17	III.3.Q.15	Groundwater Monitoring	
18	III.3.Q.15.a	The Permittees will comply with the requirements of Chapter 5.0. [WAC 173-303-645]	
19	III.3.R	GROUNDWATER	
20 21	III.3.R.1	The Permittees will comply with the requirements of Addendum D, Groundwater Monitoring Plan. [WAC 173-303-645]	
22 23	III.3.R.2	All wells constructed pursuant to this Permit will be constructed in compliance with Chapter 173-160 WAC.	
24	<u>III.3.R.3</u>	Update the Groundwater Monitoring Network	
25 26	<u>III.3.R.3.a</u>	The Permittees will install an additional downgradient monitoring well E-26-15 as identified in Addendum D, Groundwater Monitoring Plan by December, 2016.	
27 28 29	<u>III.3.R.3.b</u>	Within 60-days of the well installation, the Permittees will submit a Class 2 Permit modification [WAC 173-303-830 Appendix I, C.1.a] to update Addendum D and include the additional monitoring well into the groundwater monitoring network.	
30	<u>III.3.R.3.c</u>	Concurrently with the permit modification request, the Permittees will submit a revised	

"Liquid Effluent Retention Facility Characterization Report" for the additional monitoring well that includes:
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 "Liquid Effluent Retention Facility Characterization Report" for the additional monitoring well that includes:
 "Groundwater sample results from the new well (E-26-15) and the existing wells for all constituents in the Addendum D, Groundwater Monitoring Plan for the Liquid Effluent Retention Facility,

36 III.3.R.3.c.2 Results of evaluating final well development data and drilling logs,

37 III.3.R.3.c.2.a A well use designation (upgradient or downgradient).

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